

**ROCKDALE COUNTY, GEORGIA**

**P.O.#**

100

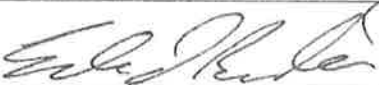
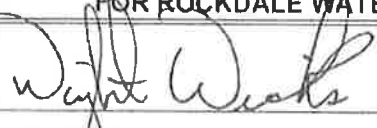
2016-338



ESG Operations, Inc.  
2440 Tatum Road  
Conyers, GA 30013  
Ph: 770-278-7510  
Fax: 770-918-6576

## CAPITAL EXPENDITURE REQUEST ESG OPERATIONS - ROCKDALE COUNTY

Request Number:	RWR 2016/06-017
Date of Request:	June 16, 2016
Requested of:	ROCKDALE WATER RESOURCES
Requested by:	ESG OPERATIONS, INC
Capital Item Requested:	Sludge Holding Blower 2 - Major Overhaul/Rehab
Cost of Capital Item:	\$40,000.00
Facility/Location:	Quigg Branch WPCP
Benefit of Capital Item:	Existing sludge holding tank blower/mixing system includes 2 - 250 Hp rotary lobe positive displacement blowers. One blower is needed to provide redundancy. The overall operational efficiency of the biosolids dewatering system and the associated \$500,000 annual expenditures rely on the ability to properly manage and condition the biosolids prior to dewatering.
Alternatives Considered:	Replacement of blower is not cost effective. Very few vendors provide such repair services for large Hp lobe blowers. ESG had 2 different companies on-site to inspect the blower but only one vendor appeared to be fully qualified to complete the takedown, diagnosis and repair of a very complicated large Hp blower. Estimate (attached) is budgetary and nothing firm will be known until the blower is disassembled. We recommended raising the approval cost ceiling for this CIP.
RWR PO or Rebatable?	RWR PO: <input checked="" type="radio"/> Yes <input type="radio"/> No Rebatable Account:
Capitalize Expenditure:	<input checked="" type="radio"/> Yes <input type="radio"/> No
Years Service Life	10
Extended:	
Percent of New Unit:	25%

APPROVALS	FOR ESG	FOR ROCKDALE WATER
Signature		
Name	Ed Biskis, P.E.	Dwight Wicks
Title	Project Manager, ESG Operations, Inc.	Director, Rockdale Water Resources
Date	6/16/16	6/16/2016

### Definitions:

**O&M Repair:** Does not extend the service life or is part of routine maintenance.

**Capital Improvement:** a. Extends the service life of the unit.

b. Repair cost is at least 25% of the replacement cost of a new unit.

c. Cost exceeds \$5,000.



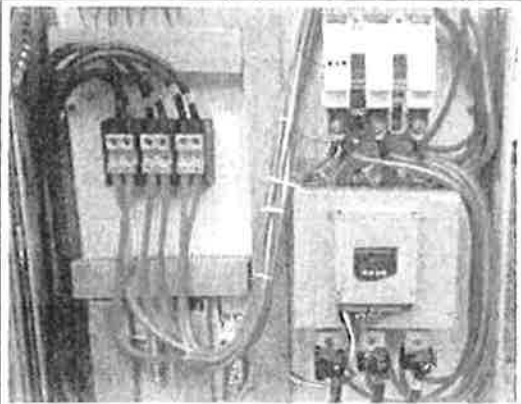


## Rockdale County Quigg Branch WWTP

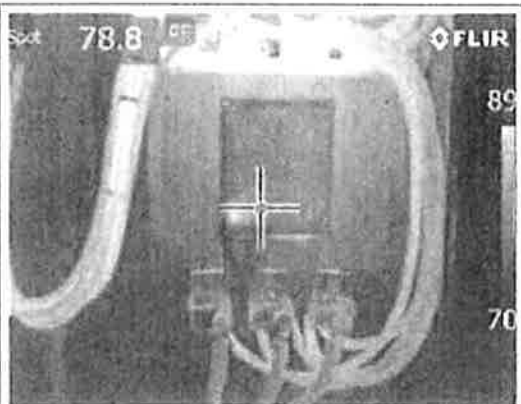
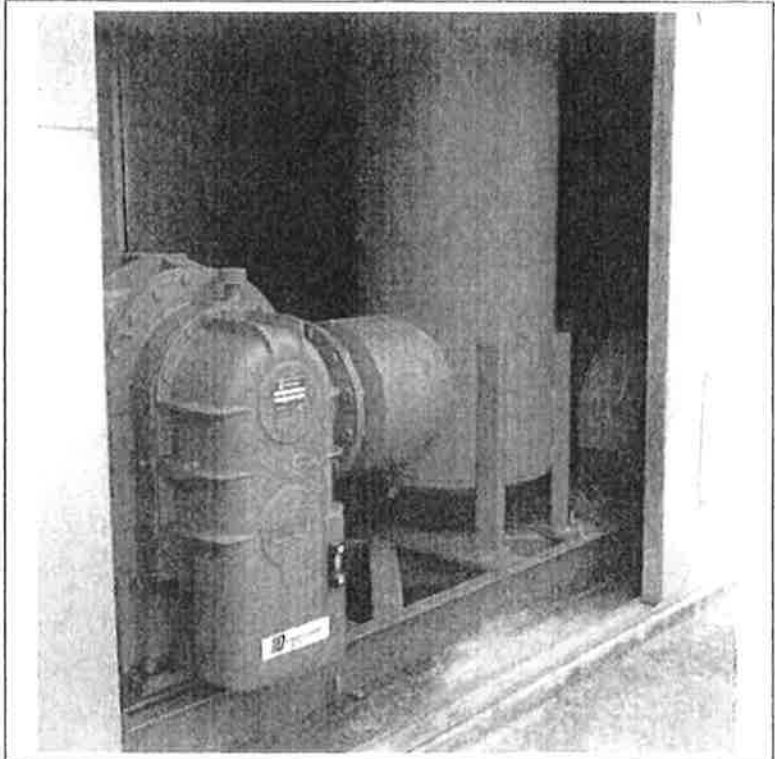
### SHT Blower 2 250 HP

#### Equipment Condition At-A-Glance

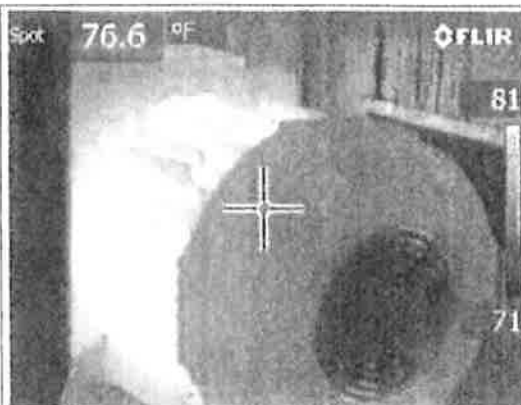
Vibration					
Motor	Drive	Electrical	Infrared	Mechanical	Oil



Control Panel



Panel Scan



Unit Scan

#### ELECTRICAL REFERENCE

##### ONLINE

##### OFFLINE

	AMPS	VOLTS TO GROUND	Insulation	Phase Angle	Current Frequency
1.1	193.3	282	> 99	62	59
1.2	194.4	282	99	62	58
1.3	185.1	283	> 99	62	38

Comments: